

Engr. Dr. Syed Mubashir Ali

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225 DD, Street 8, DHA Phase 4, Lahore, Pakistan

Academician / Researcher / IT Professional

A seasoned academician having a strong background in computing with more than 13 years of cumulative work experience in the fields of IT administration, teaching, and scholarly research.

Work Experience

Bahria University **Lahore, Pakistan** **September 2024 Till Date**

Associate Professor: September 2nd 2024 till date

- Teaching to both undergraduate and graduate students in the department of computer science under the program of BS IT.
- Manager Bahria Innovation Center (BIC).
- FYP evaluations and research activities.

Muhammad Ali Jinnah University (MAJU) **Karachi, Pakistan** **August 2023 Till July 2024**

Assistant Professor: August 15th 2023 till 10th July 2024

HOD Software Engineering: September 20th 2023 till 10th July 2024

Acting HOD Computer Science: January 9th 2024 till April 3rd 2024

- Teaching to both undergraduate and graduate students in the Faculty of Computing of the department of computer science and department of software engineering.
- Managing faculty allocation and administrative responsibilities as the head of department of both CS and SE having more than 50 full time and 30 visiting faculty members.
- Heading the department of CS and SE which is offering 3 undergraduates 2 graduate and 1 PhD programs having around 1500+ students.
- Member BOS, BOF, BASR, Financial Aid, Disciplinary Committee and Academic council of the university.

Karachi Institute of Economics & Technology (KIET) **Karachi, Pakistan** **September 2021 Till August 2023**

Assistant Professor

- Teaching in the College of Computing and Information Sciences (COCIS) in the department of computer science and artificial intelligence.
- Member organizing and publication committee of 4th International Conference on Computing and Information Sciences (ICCIS) sponsored by IEEE.
- Member Board of Studies (BoS) and Board of Advanced Studies and Research (BASR).

Institute of Business Management (IoBM) **Karachi, Pakistan** **September 2014 - September 2021**

Assistant Professor: August 2020 to September 2021

Senior Lecturer: November 2018 to August 2020

Lecturer: May 2015 to October 2018

Adjunct Faculty: September 2014 to April 2015

- Worked in College of Computer Science and Information Systems (CCSIS) in department of computer science and MIS.

- Taught various computer science and MIS courses to bachelors and masters' students.
- Course coordinator / Faculty Allocation for CS and MIS courses.
- Worked on mapping of CS and SE courses to launch BS SE program at CCSIS IoBM.
- Supervising various final year projects to BS CS students.
- Worked on preparing File B & File C for NCEAC accreditation of BS CS program.
- Managed the website development and documentary of the 10th, 11th 12th and 13th MACS conferences held at IoBM.

American International School **Dubai, UAE** **October 2011 – June 2014**

Computer Teacher / IT Administrator

- Taught computer subjects to grade 7 & 8 students.
- Maintaining more than 450 Windows and Linux client desktops/laptops and 2000 tablet PCs deployed throughout the school.
- Deployed and maintaining Linux based firewall, DHCP, proxy, print & file servers.
- Responsible for delivering training to the teachers to use classroom management system and other ICT systems deployed and develop user manuals.
- Providing all types of ICT support to teachers, faculty and staff.
- Developed and implemented IT governance and usage policy for the students and staff for proper use of IT services.
- Project leader, researcher and main consultant for the implementation of tablets in classrooms for e-learning throughout the school.

Al-Etihad Group [Intern] **Ajman, UAE** **June 2011 – September 2011**

- Analysis of the deployed ERP from end user's perspective.

Preston University Ajman [Intern] **Ajman, UAE** **June 2010 - July 2010**

- Configuring and maintaining Windows Server 2003 and Red Hat Linux (RHEL & CentOS) servers.

Innovative Integration (Pvt.) Ltd [Intern] **Karachi, Pakistan** **December 2009 – January 2010**

- Windows Server 2003 and Exchange 2003 deployment, configuration, and maintenance.
- Working knowledge of server virtualization using VMware.
- Basic configuration of Blue Coat Systems' ProxySG and WAN optimization appliances.

Geo TV Network [Intern] **Karachi, Pakistan** **June 2009 - August 2009**

- IT help-desk support.

Peer Reviewed Publications

http://scholar.google.com/citations?user=qlgsPZoAAAAJ&hl=en&oi=ao
https://www.researchgate.net/profile/Syed_Mubashir_Ali/stats

Journal Publications

1. Nadeem, M. U., Raazi, S. M. K. U. R., Mehboob, B., **Ali, S. M.,** & Raza, S. (2024). Cost Analysis of Running Web Application in Cloud Monolith, Microservice and Serverless Architecture. *Journal of Independent Studies and Research Computing*, *22*(2), 65-102. **(HEC Recognized in Y Cateogry)**
2. Ali, K. M., Ahmed Khan, T., **Ali, S. M.,** Aziz, A., Khan, S. A., & Ahmad, S. (2024). An Exhaustive Comparative Study of Machine Learning Algorithms for Natural Language Processing Applications. *Engineering Proceedings*, *76*(1), 79. **(Scopus Q3)**

3. Alam, Nabeel., Syed, M.K.R., Mehboob, Bilal., & **Ali, S.M.** (2024). Improving Cloud Streamed Gaming Quality using Latency Compensating GamePlay Enhancements. *Pakistan Journal of Engineering, Technology & Science*, 12(1). **(HEC Recognized in Y category)**
4. Imran; Zuhairi, M. F., **Ali, S. M.,** Shahid, Z., Alam, M. M., & Su'ud, M. M. (2024). Realtime Feature Engineering for Anomaly Detection in IoT based MQTT Networks. *IEEE Access, 12, 25700*. **(Impact Factor 3.9, JCR Q1 / Scopus Q1, HEC/HJRS W Category)**
5. Imran., **Ali, S.M**., Faiz, R., Alam, M.M., Shahid, Z., Quadri, S.K.A., Bari, M.R., & Shibli, M.F. (2023). A Survey Of Machine Learning Techniques For Detecting Anomaly In Internet Of Things (IoT). *Journal of Independent Studies and Research Computing*, 21(1). **(HEC/HJRS Y Category)**
6. Imran., Zuhairi, M.F.A., **Ali, S.M**., Shahid, Z., Alam, M.M., & Su'ud, M.M. (2023). Improving Reliability for Detecting Anomalies in the MQTT Network by Applying Correlation Analysis for Feature Selection Using Machine Learning Techniques. *Applied. Sciences, 13*, 6753. **(Impact Factor 2.838, Scopus / JCR Q2, HEC/HJRS W Category)**
7. Iftikhar., A., **Ali., S.M,** Alam., M.M., Musa., S., and Su'ud., M.M. (2022). Analysis of Risk Factors in Global Software Development: a Cross Continental Study using Modified Firefly Algorithm. *Computational Intelligence and Neuroscience.* **(Impact Factor 3.633, Scopus/JCR Q1, HEC/HJRS W Category)**
8. Iftikhar., A., Musa., S., Alam., M.M., Ahmed., R., Muhammad., L., Su'ud., M.M., and **Ali., S.M**. (2022). Risk Classification in Global Software Development using Machine Learning Approach: A Result Comparison of Support Vector Machine and K-Nearest Neighbor Algorithms. *Journal of Information Technology Research.* **(ISI Indexed, HEC/HJRS Y Category)**
9. Khan, S.A., Radi, R.M., **Ali, S.M**., Zahran, E.H., Al Shahtout, A.H., and Esam, S.A. (2022). An analysis of third party logistic selection criteria in oil and gas sector: An integrated SWOT – AHP approach. *International Journal of Logistics Systems and Management.* **(Scopus Q2, HEC/HJRS X Category)**
10. Khan, S. A., Agyemang, M., Ishizaka, A., Zaman, S. I., **Ali, S. M**., & Laval, J. (2021). Barriers and overcoming strategies to multi-tier sustainable supply chain management: an explorative study in an emerging economy. *International Journal of Sustainable Engineering*, 1-12. **(Scopus Q2, HEC/HJRS X Category)**
11. Imran, **Ali, S. M**., Alam, M., & Suud, M. M. (2021). Review of Security Issues in Internet of Things (IoT). *Journal of Independent Studies and Research Computing*, 18(2). **(HEC/HJRS Y Category)**
12. Imran., **Ali, S.M**., Alam, M.M., and Su'ud, M. M. (2021). A Survey of IoT Security Issues– From Past to Future Trends. *Journal of Computer Science.* **(Scopus Q4)**
13. **Ali, S. M**., Burney, S. A., & Khan, S. Y. (2020). Fuzzy-AHP-TOPSIS: An integrated multi-criteria decision support system for supplier selection in Pakistan's textile industry. IJCSNS, 20(4), 91. **(ISI Indexed, HEC Recognized)**
14. Ishaq, A., Khan, M. A., & **Ali, S. M**. (2019). Application of Gamification in Human Resource Management–an Empirical Research to Increase Employees' Motivation and Productivity. *International Journal of Computer Applications*, *975*, 8887.
15. **Ali, S. M**., & Ishaq, A. (2019). Prospects and Challenges of Adopting E-Commerce System in Pakistan–An Empirical Research. *International Journal of Computer Applications*, *975*, 8887.
16. Burney, S. A., & **Ali, S. M**. (2019). Fuzzy Multi-Criteria Based Decision Support System for Supplier Selection in Textile Industry. IJCSNS, 19(1), 239. **(ISI Indexed, HEC Recognized)**
17. Iftikhar, A., Musa, S., Alam, M., Su'ud, M. M., & **Ali, S. M**. (2018). Application of Soft Computing Techniques in Global Software Development: state-of-the-art Review. *International Journal of Engineering & Technology*, *7*(4.15), 304-310.
18. Burney, S. A., **Ali, S. M**., & Khan, M. S. (2018). A Novel High Order Fuzzy Time Series Forecasting Method with Higher Accuracy Rate. *IJCSNS*, *18*(5), 13. **(ISI Indexed, HEC Recognized)**
19. **Ali, S. M.,** & Iftikhar, A. (2018). Prospects & Challenges of Implementing Knowledge Management System in IT Industry. *Pakistan Journal of Engineering, Technology & Science*, *7*(1). **(HEC Recognized in Z category)**
20. **Ali, S. M**., Jilani, T. A., Kidwai, A., Noor, H., & Shah, R. (2015). University Students' Perception on the Impact of 3G Mobile Broadband in Pakistan-A Survey. *Research Inventy: International journal of Engineering and Science*, *5*(2).
21. Ali, S. R., & **Ali, S. M.** (2014). A Review of the Causes of Workplace Violence and its Preventive Measures-The Management Perspective. *Journal of Social Science Research*, *4*(3).
22. **Ali, S. M.** Soomro, T. R., (2014). Integration of Information Security Essential Controls into Information Technology Infrastructure Library – A Proposed Framework. *International Journal of Applied Science & Technology, Vol 4, Issue 1*, 2014.
23. **Ali, S. M.,** Soomro, T. R., & Brohi, M. N. (2013). Mapping information technology infrastructure library with other information technology standards and best practices. , *9*(9), 1190. **(Scopus Indexed Q3)**
24. **Ali, S. M**., & Usman, M. (2013). Prospects and Challenges of Implementing Enterprise Mobility Management–Case of a Large Telecom Service Provider in United Arab Emirates. *International Journal of Computers & Technology*, *10*(8), 1930-1933.
25. **Ali, S. M.** (2013). Challenges and Benefits of Implementing Tablets in Classroom for e-Learning in a K-12 Education Environment–Case Study of a School in United Arab Emirates. *Research Inventy: International Journal of Engineering and Science*, *3*(4).
26. **Ali, M.** (2013). 4G over 3G Mobile Broadband Speed Improvements on Smartphones from End Users' Perspective. *International Journal of Computers & Technology*, *9*(1), 922-925.
27. **Ali, S. M**. (2013). Challenges and security issues in future IT infrastructure components. *International Journal of Computers & Technology*, *8*(2), 845-847.

Conference Publications

1. Burney, S. A., & **Ali, S. M.** (2019, December). Sales Forecasting for Supply Chain Demand Management-A Novel Fuzzy Time Series Approach. In *2019 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS)* (pp. 1-4). IEEE. (**ISI Indexed**)

2. Khan, M., Manzoor, A., Rohail, K., **Ali, S. M.,** Iftikhar, A., & Alam, M. (2018). Soft computing applications in education management—A review. In *Innovative Research and Development (ICIRD), 2018 IEEE International Conference on* (pp. 1-4). IEEE. (**Scopus Indexed)**
3. Iftikhar, A., Musa, S., Alam, M., Su'ud, M. M., & **Ali, S. M**. (2018). A survey of soft computing applications in global software development. In *Innovative Research and Development (ICIRD), 2018 IEEE International Conference on* (pp. 1-4). IEEE. (**Scopus Indexed)**
4. Burney, S. A., **Ali, S. M**., & Burney, S. (2017). A survey of soft computing applications for decision making in supply chain management. In *Engineering Technologies and Social Sciences (ICETSS), 2017 IEEE 3rd International Conference on* (pp. 1-6). IEEE. (**Scopus Indexed)**
5. Hashmani, M., **Ali, S. M.,** Naveed, S. M., & Khan, M. N. Challenges and benefits of implementing knowledge management system in an IT based company – case study of Limton Innovative Systems. *1st SZABIST Multidisciplinary International Conference, Dubai, UAE.* 2016.

Courses Taught

1. Information Security
2. IT Infrastructure
3. Parallel and Distributed Computing
4. Business Process Re-engineering
5. Human Computer Interaction
6. Advanced Research Methods
7. Programming Fundamentals
8. Intro to Information and Communication Technology
9. Computer Architecture & Organization
10. Intro to Software Engineering
11. IS Audit & Management
12. CRM Systems & Applications
13. Computer Concepts & Applications
14. Business & Information Technology
15. Information Technology I
16. Information Technology II
17. Information Systems Management
18. Electronic Commerce

Conferences / Workshops / Guest Speaker

- Attended a workshop on "Updating Teaching Strategies" by Oxford University Press.
- Attended a workshop on "Managing Virtual Classes" by Oxford University Press.
- Invited as a guest speaker on importance of cluster based computing using Google Clusters at BIZTEK.
- Attended one-day training of "Statistical tools for research using Minitab" held at IoBM.
- Presented a talk on "Big Data Analytics – Applications in the financial institutions and banks" at 9th Mathematics Colloquium on Big Data Analytics and Business Intelligence held at IoBM.
- Presented a talk on "Gamification of Education" at 6th IBT conference held at BIZTEK.
- Attended and presented paper at 1st SZABIST Multidisciplinary International Conference held at SZABIST Dubai.
- Attended and presented paper at 3rd IEEE International Conference on Engineering Technologies & Social Sciences held at AIT, Bangkok, Thailand.
- Attended and presented paper at 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS) held at IoBM, Karachi, Pakistan.

Journal / Conferences Reviewer

- IEEE Access [IF 3.7][Scopus / ISI Indexed] (Publisher: IEEE)
- International Journal of Physical Distribution & Logistics Management [IF 4.744] [Scopus / ISI Indexed] (Publisher: Emerald)
- Waste Management and Research [IF 2.771] [Scopus / ISI Indexed] (Publisher: SAGE)
- International Journal of Business Intelligence and Data Mining [Scopus Indexed] (Publisher: Inderscience)
- International Journal of Knowledge Management Studies [Scopus Indexed] (Publisher: Inderscience)
- International Journal of Process Management and Benchmarking (IJPMB) [Scopus Indexed] (Publisher: Inderscience)
- International Journal of Mathematics in Operational Research (IJMOR) [Scopus Indexed] (Publisher: Inderscience)

- International Journal of Productivity and Quality Management (IJPQM) [Scopus Indexed] (Publisher: Inderscience)
- Pakistan Journal of Engineering Technology & Science (PJETS)
- 12th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS) [IEEE / Scopus Indexed]
- 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS) [IEEE / Scopus Indexed]

Final Year Projects Supervised / Industrial Collaboration

- Urdu voice based Calculator using Matlab
- One Tap Ambulance (A mobile application to call ambulance to a particular location with tracking)
- DrugNinja (An ERP for Pharmaceutical Company in industrial collaboration with Technolectuals Pvt Ltd)

Education

- Post Doctorate in IT — MIIT, UniKL, Kuala Lumpur, Malaysia — Feb 2021 – Jan 2023
  (Project Title: *Blockchain and Machine Learning Applications for Optimizing Information Security within Internet of Things and Cloud Computing*)
- PhD in Computer Science — IoBM, Karachi, Pakistan — Aug 2014 – Aug 2020
  (Dissertation Title: *Application of Soft Computing Techniques for Decision Making in Supply Chain Management*)
- MS in Information Technology — SZABIST, Dubai, UAE — Feb 2012 – Feb 2014
  (Thesis Title: *To achieve highest security and more benefits from ITIL*)
- BS in Computer Engineering — FAST-NUCES, Karachi, Pakistan — Aug 2006 – Dec 2010
  (FYP Title: *Home automation using Zigbee*)

Personal Details

- Gender and age : Male, 36
- CNIC & Passport No: 42201-9206920-9 / AB5179203
- Valid Pakistan & UAE driving license.

  IELTS academic 7.0

Reference(s)

Prof Dr. Muhammad Mansoor Alam Professor, Faculty of Computing, Riphah International University, Islamabad, Pakistan and Adjunct Professor, Multimedia University Malaysia. +92-332-2834102 m.mansoor@riphah.edu.pk	Dr. Talha Ahmed Khan Senior Associate Professor and HOD, Department of Computer Science, Bahria University Karachi Campus +92-333-3327369 talhaahmedkhan.bukc@bahria.edu.pk	Prof Dr. Salman Ahmed Khan Professor and Associate Dean, College of Computing and Information Sciences, Karachi Institute of Economics and Technology, Karachi, Pakistan +92-335-3734550 sakhan@kiet.edu.pk